

نَوْوَلُهُ فِي أَي عَمِلَ عَلَيْهِ الطَّالَةُ دِي قُولُولُ فِي أَي عَمِلَ عَلَيْهِ الطَّالَةُ دِي قُولُونُ

Cairo Governorate Nozha Directorate of Education Nozha Language Schools Ismailia Road



Department : Math Form : 1st prep.

Sheet

Alg.

Exercise (1)

[1] Complete:

Exercise (2)

[1] Represent each of the following on number line:

a) $\frac{-7}{4}$

- b) $1\frac{1}{5}$
- c) $\frac{1}{2}$

[2] Write the correct sign (<,>,=):

- a) Every positive rational numberzero .
- b) Every negative rational numberzero .
- c) $\left| \frac{-13}{2} \right| \dots 6\frac{1}{2}$
- d) $\frac{-9}{3}$ -3
- f) 0.5 0.5°
- $g) \left| \frac{-3}{2} \right| \dots \frac{1}{2}$

[3] Write two rational number lying between:

- 1) $\frac{1}{3}$ and $\frac{4}{5}$
- 2) $\frac{-1}{2}$ and 1
- 3) 0.3 and $\frac{4}{5}$

[4] Complete:

- 1) Between each two successive integers there is
- 2) The opposite rational number $\frac{1}{3}$ on number line
- 3) The number of integers lying between $\frac{5}{7}$ and $\frac{8}{11}$ are
- [5] Write the rational number that equal $\frac{3}{4}$ and the sum of terms 28.

Exercise (3)

[1] Complete:

1) The additive identity element in φ is

2) The additive inverse of number $\frac{3}{5}$ is

3) The additive inverse of $(\frac{2}{3})^{\text{zero}}$ is

4) The additive inverse of $\left| \frac{-4}{5} \right|$ is

5) The additive inverse of number zero

6) The additive inverse of -0.5 is

7) The remainder of subtracting $\frac{1}{5}$ from $\frac{6}{5} = \dots$

8) The remainder of subtracting $\frac{1}{3}$ from $\frac{-4}{3}$

9) The remainder of subtracting $\frac{-3}{2}$ from zero

10) A + $\frac{7}{8}$ = zero then A =

11) If (A + $\frac{1}{4}$) is additive inverse of number $\frac{3}{4}$ then A =

12) If X = 2, Y = 3 and Z = 4 then $\frac{X}{Y} - \frac{Z}{X} = \dots$

[2] Using the number line to find result:

a)
$$-\frac{1}{3} + \frac{7}{3} =$$

b)
$$\frac{5}{7} + \frac{1}{7} =$$

[3] Using the addition properties in :

a)
$$\frac{5}{8} + (\frac{-3}{4}) + \frac{3}{8} + \frac{3}{4}$$

b)
$$7\frac{1}{4} + (-11\frac{1}{4})$$

c)
$$\frac{2}{3} + \frac{4}{5} + \frac{3}{4}$$

[4] If
$$X = \frac{5}{6}$$
, $Y = \frac{-1}{3}$, $Z = \frac{1}{2}$ find:

a)
$$X + Z$$

$$c)(X+Z)$$

$$d)(X+Y)-Z$$

Exercise (4)

[1] Complete:

2) The multiplicative inverse of no. $\frac{3}{7}$ is

3) The multiplicative inverse $\left(\frac{-3}{5}\right)^{\text{zero}}$ is

4) The rational no. $\frac{a-1}{5}$ has multiplicative inverse if $a = \dots$

5) The rational no. has multiplicative inverse is

6) $\frac{2}{3} \times (\frac{-4}{5}) = \frac{-4}{5} \times \dots$

7) If $\frac{a}{b} = 80$ then $\frac{a}{2b} = \dots$

8) $\frac{X}{Y} = \frac{2}{3}$ then $\frac{3X}{2Y} = \dots$

9) $\frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \times \dots \times \frac{50}{51} = \dots$

10) $\frac{-7}{3} \times (\frac{-3}{7}) = n$, then $n = \dots$

11) $\frac{-5}{3} \times \dots = 0$

12) $\frac{19}{3} = 1$

[2] Using properties of following:

1)
$$\frac{6}{37} \times 7 + \frac{6}{37} \times 5 + \frac{6}{37} \times (-11)$$

2)
$$\frac{-3}{7} \times 8 + 5 \times (\frac{-3}{7}) + (\frac{-3}{7}) \times 9$$

3)
$$\frac{27}{11} \times \frac{1}{4} - \frac{27}{11} \times \frac{1}{4} + \frac{27}{11} \times 9$$

[3] If
$$X = \frac{3}{2}$$
, $Y = \frac{-1}{4}$ and $Z = -2$

a)
$$\frac{1}{XYZ}$$

b)
$$\frac{X}{Y} - \frac{Z}{Y}$$

[4] Find the middle rational no. lying between:

a)
$$\frac{3}{8}$$
, $\frac{5}{8}$

b)
$$\frac{-1}{2}$$
, $\frac{-3}{4}$

c) zero,
$$\frac{2}{5}$$

[5] Find the rational number lying at :

- a) One fourth of way between $\frac{5}{7}$, $\frac{-3}{7}$
- b) One tenth of way between $\frac{-1}{2}$, $\frac{-3}{5}$

التب ذائدولي في البحث وانض لجروبات ذائدولي من رياض الاطفال للصف الثالث الاعدادي

Unit Two

[1] Complete:

1) The degree of term 3 X² Y isits coefficient is

2) The coefficient of algebraic term $\frac{2}{3}$ X⁴ Y Z³ isand its degree

3) The degree of an absolute term in algebraic expression

4) -3a⁵b number of termsname is, degree is

5) 5 X^3 – 7 X + 4 number of termsname, degree is

6) The coefficient of the algebraic term X isand its degree is

7) If the degree of the algebraic term $5 \times X^n \times Y^2$ is 5 then $n = \dots$

8) If the degree of algebraic term Y^{m+1} is the degree of a algebric term $5 \times X^2 Y^4$ then in =

Sheet (7)

[1] Find the result of each of following:

1)
$$3X + 2X$$

$$2) -5a^2 + 3a^2$$

3)
$$\frac{3X}{7} - \frac{X}{7}$$

4)
$$-2 X^2 Y + 3Y X^2$$

5) Subtract Y^2 from $-3 Y^2$

6) What is increase of $3a^2$ b than a^2 b is ?

7) What is decrease of – 3ab than 2ab?

8) Find the sum of:

a)
$$3a - 4b + 6c$$

$$5a + 6b - 2c$$

b)
$$3a - 7b - 5c + 2$$

$$-a + 4b + c - 5$$

c)
$$5x + 2y - z + 2$$

$$7x + y - 32 + 3$$

$$-2x - 5y + 4z - 1$$

[2] Find the sum of following:

1)
$$3X - 2Y$$
, $X + 2Y - 2$

2)
$$2a^2b - 3ab^2 + b^3$$
, $-a^2b + b^3$

3)
$$3X - 4X^2 + X^3$$
, $2X^2 - 6X^2 - 6X + 5$, $7X + 4 - X^3$

[3] Reduce each of the following:

1)
$$5X - 3X^2 + 4 - 7X^2 - 6X - 1$$

2)
$$6 X^2Y - 4 XY^2 + 2XY^2 - 5X^2Y + 2X^2Y^2$$

3)
$$5X^2 - 2X + 8 - 7X - 3 + X^2$$

4)
$$-a^2 - 5ab + 4b^2 - 2 - 3a^2 + 2ab - 2b^2 - 7$$

Sheet (8)

[1] Simplify:

1) 4 (
$$X - 3$$
) =

2) a
$$(a-2) = \dots$$

$$(3) - 3k(2k^2 - 3k - 7) = \dots$$

4)
$$-2c(7-3c) = \dots$$

5)
$$2X^2Y (2X^2 - 3XY + Y^2) = \dots$$

7)
$$(3X + 4) (2X + 5) = \dots$$

8)
$$(5X + 1) (3X + 2) = \dots$$

9)
$$(2X + 5Y (2X - 5Y) = \dots$$

10)
$$(X-4)(X+4) = \dots$$

11)
$$(2X + Y)^2 = \dots$$

12)
$$(4 X + 5Y)^2 = \dots$$

13) 3 (
$$m-5$$
) ($m+2$) =

14) 4
$$(XY - 2)^2 = \dots$$

15)
$$(2 X^2 + 3) (X^2 - 5) - (3 X^2 + 2)^2 = \dots$$

[2] Find value of K:

1)
$$(2X + Y)^2 = 4 X^2 + K X Y + Y^2$$
 then $K = \dots$

2) If
$$(X - Y)(2X + Y) = 2X^2 + KXY - Y^2$$
 then K

3)
$$(X-3)(X+3) = X^2 + K$$
 then $K = \dots$

[3] Find numerical value of following:

If
$$X = 1$$
, $Y = -2$

1)
$$(2Y + 7) (3Y + 4)$$

$$2)(X+4)(3X+2)$$

$$3)(3X + Y)(X + 3Y)$$

Sheet (8)

[1] Find the quotient:

$$a) \quad \frac{18 a^2}{3 a}$$

b)
$$\frac{18 \text{ m}^3 + 36 \text{ m}^2}{-2 \text{ m}^2}$$

c)
$$\frac{48 \text{ X}^3 - 80 \text{ mX}^2}{8 \text{ X}^2}$$

d)
$$\frac{32 X^5 - 32 X^2 + 36 X^7}{4 X^2}$$

e)
$$2 X^2 + 13 X + 15$$
 by $X + 5$

f)
$$X^3 - 27$$
 by $X - 3$

g)
$$3 X^3 - 4X + 1$$
 by $X - 1$

h) If area of rectangle is ($2X^2 + 7X - 15$) and length is (X + 5) find perimeter if X = 3 cm.

Sheet (9)

Factorize by identifying the H.C.F:

a)
$$3 X^2 + 6 X$$

b)
$$35 a + 10 a^2$$

c)
$$3 X^2 + 12 X - 6$$

d)
$$8 Y^2 - 4 X^2$$

e)
$$3X(a+b) + 7(a+b)$$

f)
$$3 X^3 (X-4) + 4 X (X-4) + 3 (X-4)$$

g)
$$4 \text{ m}^5 (2X + 5 \text{ Y}) - 3 \text{ m} (2X + 5 \text{ Y}) - 6 (2X + 5 \text{ Y})$$

h)
$$7 \times 123 + 7 \times 35 - 7 \times 18$$

i)
$$6 \times 15^2 + 18 \times 15 - 24 \times 15$$

Sheet (10)

1) The mode of set of values is

2) The mode of values of 2, 3, 8, 2, 9 is

3) The mode of values 3, 6, 13, 19, 19, 12 is

4) If the mode of values $\frac{1}{3}$, $\frac{1}{7}$, $\frac{1}{5}$, $\frac{1}{7}$ is $\frac{1}{X}$ then $X = \dots$

5) If the mode of values 12, 17, X-1, 7, 12 is 7 then $X = \dots$

6) If mode of values of a+2, a+1, a+3, a+2 equal 12 then $a=\dots$

7) The median of values 4, 8, 3 is

8) The median of values 6, 5, 9, 8 is

9) The median of values 8, 17, 4, 6, 10 is

10) The median of values 6, 2, 5, 4 is

11) The mean of values 5, 12, 6, 17 is

12) The mean of values 2, 5, 8, 9, 14, 28 is

14) The mean of values X, X - Y, Y - X is

[2] The following table shows the number of hours that . Ali and Ahmed study daily in a week .

Ali	7	5	8	9	8	6	4
Ahmed	8	9	7	9	9	5	5

- a) find mean of studying hour for each Ali, Ahmed
- b) Find median of each of them.
- c) Find mode of hours of each of them.



Model exam (Alg.)

[1] Complete:

a)
$$\frac{3-x}{x+2}$$
 = zero if χ =

b) The degree of the algebraic term $6 x^2 y^3$ is......

The additive inverse of the number $\left| \frac{-3}{5} \right|$ is

d) -8 X exceeds 5 X by e) $(12 x^3 \div 4 x) \times ... = 6 x^4$.

[2] Choose the correct answer:

1) $\frac{-2}{5} \times n = 1$ Then $n = \dots$

b) $\frac{-5}{2}$

c) $\frac{2}{5}$

d) $\frac{-2}{5}$

2) The rational number lies in half way between $\frac{1}{2}$ and $\frac{7}{8}$

b) $\frac{5}{9}$

d) $\frac{1}{2}$

3) $\frac{3}{x+2}$ is a rational number then $x \neq \dots$

a) zero

c) 2

d) -2

4) Express $\frac{4}{11}$ as a decimal

a) 0.36

b) 0.363

c) 0.36

d) 0.036

5) If $\frac{x}{y} = \frac{2}{5}$ Then: $5 \times -2 = \dots$

a) $\frac{2}{5}$

b) $\frac{5}{2}$

c) 1

d) zero

3x - 5y - 6 and 3y + 2x + 5

 $\frac{5}{9} \times 11 + \frac{5}{9} \times 8 - \frac{5}{9}$ b) Use distributive property to find :

The length of a rectangle is $5 \times cm$ and its width is $3 \times cm$. calculate its area. c)

 $6 x^2 + 2 x - 5$ from $2 x^2 - 3 x + 4$ [4] a) Subtract:

b) If $a = \frac{3}{4}$, $b = -\frac{1}{2}$ find the value of $(a + b) \div (a - b)$

c) Find three rational numbers between $\frac{1}{2}$, $\frac{1}{3}$



Geom.

Sheet (1)

[1] Mention the type of angle whose measure is as following

- 1) 57°
- 2) 117°
- 3) 90°

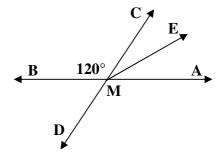
- 4) 180°
- 3) 43 $\frac{1}{2}$
- 6) 89° 59′ 60′′
- 7) 179° 62′

[2] Complete:

- 1) The angle is
- 2) The measure of straight angle
- 3) The measure of zero angle
- 4) The measure of right angle
- 5) The measure of acute angle is less thanand more than
- 6) The measure of obtuse angle is less than more than
- 7) The two complement angles are two angles whose sum of their measure is
- 8) The two supplement angles are the two angles whose sum of their measure is
- 9) The two adjacent angles formed by straight line and ray with same stating point are
- 10) If the two outer sides of two adjacent angles are perpendicular, then these two adjacent angles are
- 11) If the two outer sides of two adjacent angles are on the same straight line, then these adjacent angles are
- 12) The measure of angle which complement with 48° is
- 13) The measure of angle which complement with 90° is
- 14) The measure of angle which complement with $60^{\circ} \frac{1}{4}$ is
- 15) Measure of angle which supplementary with 90° isangle .
- 16) Measure of angle which supplementary with 180° isangle .

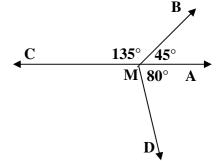
- 17) Measure of angle which supplementary with 48°.
- 18) If two straight lines intersect then the measure of each two vertically opposite angle are
- 19) The sum of measure of accumulative angles at point
- 20) Angle bisector is
- 21) If m (A) = 80 then (reflex \angle A) =°
- 22) In opposite figure :
 - a) M is the point intersection of \overrightarrow{AB} and \overrightarrow{CD} , \overrightarrow{ME} bisects \angle AMC and

m (
$$\angle$$
BMC) = 120°. Find:
m (\angle AMC), m (\angle AMD), m (\angle AME)



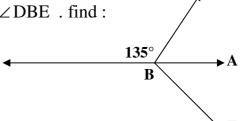
b) In the figure:

- 1) m (\angle CMD) =°
- 2)andlie on the same straight line .



c) If $B \in \overrightarrow{AC}$, m (DBC) = 135° and \overrightarrow{BA} bisects $\angle DBE$. find :

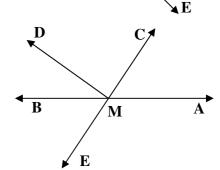
m (ABD) , m (DBE) , m (CBE)



d) If $\overrightarrow{AB} \cap \overrightarrow{CE} = \{M\}$, $\overrightarrow{MD} \perp \overrightarrow{CE}$ and \overrightarrow{MB} bisects

 $\angle DME$. Find :

 $m \, (\angle \, BME)$, $m \, (DME)$, $m \, (\angle \, AMC)$, $m \, (AME)$



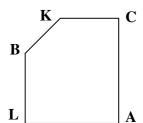
Sheet (2)

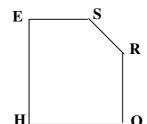
[1] Complete:

- 1) The two line segment are congruent if
- 2) The two angles are congruent if
- 3) The two square are congruent if
- 4) The two rectangle are congruent if

[2] In the opposite figure:

The two pentagons shown are congruent





Complete:

- 1) B correspond to
- 2) The polygon BLACK is congruent the polygon
- 3) KB = cm.
- 4) $M(\angle E) = m(\angle)$
- 5) CA =cm
- 6) $M(\angle A) = m(.....)$

[3] In the opposite figure:

If $C \subseteq BD$, $m(AFC) = 110^{\circ}$, BC = 5 cm and polygon ABCF \equiv the polygon EDCF

$$ED = 8 \text{ cm}$$
, $EF = 4 \text{ cm}$.

 \mathbf{E}

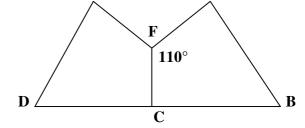
A

Complete:

M (EFC) =

DC =cm

AB = AF =



Sheet (3)

- 1) Draw the line segment whose length 7 cm. then divid it into two equal parts in length using the compass and the an scaled ruler.
- 2) Draw \angle ABC where m (\angle B) = 80° using the ruler and compasses bisect \angle B by BD
- 3) Use the ruler and compasses to draw the equilateral \triangle ABC of side 6 cm . Draw $\overrightarrow{AD} \perp \overrightarrow{BC}$ where $\overrightarrow{AD} \cap \overrightarrow{BC} = \{D\}$. what the length of \overrightarrow{AD} .
- 4) Draw ∠XYZ whose measure 70° use ruler and draw congruent equal to it.
- 5) Using the protractor , draw \angle ABC with measure 70° and on the other side of BA , draw using ruler and compasses draw $\overrightarrow{AE} /\!\!/ \overrightarrow{BC}$.



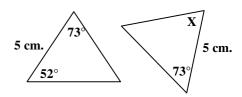
Sheet (4)

[1] Complete the following:

- 1) Any two triangle s are congruent if two sides
- 2) Any two triangles are congruent if two angles andin one of the triangles are congruent to their corresponding element in the other .
- 3) Any two triangles are congruent if eachis congruent to its corresponding side in the other triangle .
- 4) Any two right angled triangles are congruent if
- 5) The diagonal of the rectangle divides its surface into twotriangles.
- 6) If \triangle ABC \equiv \triangle XYZ, then AB =and m (\angle Z) = m (\angle)

[2] In the opposite figure:

These triangles are congruent, then $X = \dots ^{\circ}$



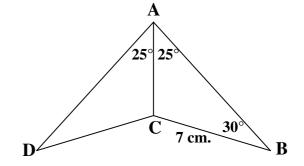
[3] In the opposite figure:

If AB = AD , BC = 7 cm. , m (\angle BAC) = m (\angle DAC) = 25° and m (\angle B) = 30°

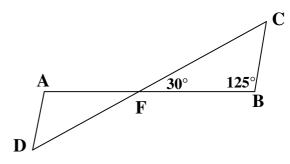
Complete the following:

If \triangle ACB \equiv \triangle ACD

- 1) $m(\angle D) = \dots^{\circ}$
- 2) CD =cm.
- 3) m ($\angle ACD$) =°



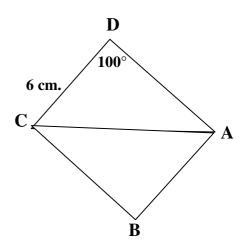
[4] In the opposite = {F}, FA = FB, CF = FD, $m \ (\angle CFB) = 30^{\circ} \text{ and } m \ (\angle B) = 125^{\circ} ,$ Then $m \ (\angle D) = \dots$



[5] In the opposite figure:

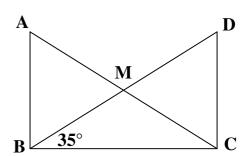
If AC bisects \angle DCB , \angle DAB , m (\angle D) = 100° And DC = 6 cm. complete the following :

- 1) \triangle ADC $\equiv \triangle$
- 2) $m(\angle B) = \dots$
- 3) $BC = \dots cm$.



[6] In the opposite figure:

$$AB = CD$$
, $m (\angle DBC) = 35^{\circ}$,
 $AB \perp BC$ and $DC \perp BC$,
Then $m (\angle BMC) = \dots$



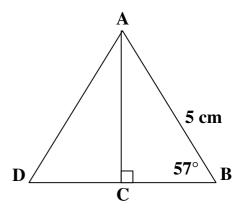
[7] In the opposite figure:

C is the midpoint of \overline{BD} , $\overline{AC \perp BD}$,

AB = 5 cm. , and m (\angle B) = 57°

Find:

- 1) The length of AD
- 2) m (∠DAC)

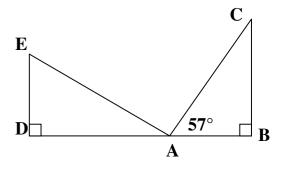


[8] In the opposite figure:

$$BC = AD$$
, $AC = AE$

And m (\angle CAB) = 57°

Find the measures of the unknown angles in Δ ADE



Sheet (5)

[1] Complete the following:

- 1) If two straight lines are parallel to a third straight line, then they are
- 2) If a straight line cuts two parallel straight lines, then each two corresponding angles are
- 3) If a straight line cuts two parallel straight lines, then each two interior angles in the same side of the transversal are

[2] In the opposite figure :

AO // HD // YX // CB

, AD = DX = XB and AC = 18 cm.

Find the length of AY

[3] In the opposite figure :

AB // CD , EF // CD

, m (\angle A) = 42° and m (\angle C) = 117°

Determine:

 $m (\angle AEC)$

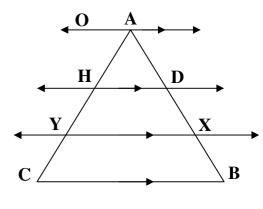
[4] In the opposite figure:

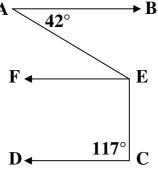
m (\angle A) = 40°, m (\angle E) = 55°

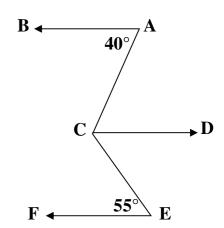
AB // EF and AB // CD

Find:

 $M(\angle ACE)$







[5] In the opposite figure:

$$\overrightarrow{AD} / / \overrightarrow{BC}$$
, $E \in \overrightarrow{CA}$,

m (\angle DAE) 70° and m (\angle DAB) = 50°

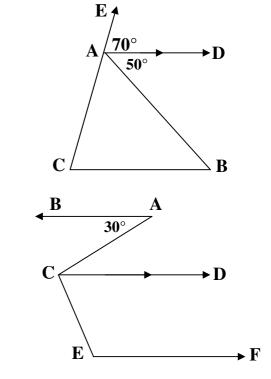
Find the measures of the triangle ABC

[6] In the opposite figure :

 $\overrightarrow{AB} / | \overrightarrow{CD} / | \overrightarrow{EF}, m (\angle A) = 35^{\circ} \text{ and}$ $\overrightarrow{CD} \text{ bisects } \angle ACE$

Find:

- 1) m (∠DCE)
- 2) m (∠CEF)

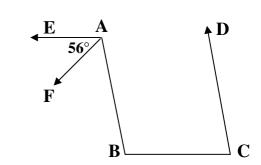


[7] In the opposite figure:

 $\overline{AE} // \overline{CB}$, $\overline{BA} // \overline{CD}$,

 \overrightarrow{AF} bisects $\angle BAE$ and m ($\angle EAF$) = 56°

Find: $m (\angle C)$



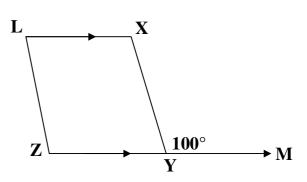
[8] In the opposite figure:

 $\overline{XL} // \overline{YZ}$, $\overline{XY} // \overline{LZ}$ and m ($\angle XYM$) = 100°

Where $M \in \overrightarrow{ZY}$

Find:

- 1) $m(\angle X)$
- 2) $m(\angle Z)$
- 3) $m(\angle L)$



Model exam

2- Choose the correct answer:

- 1) The angle whose measure 50° complements the angle whose measure°
 - a) 40°
- b) 130°
- c) 50°

- d) 180°
- 2) The measure of the vertically opposite angle of an angle of measure 70° is°
 - a) 20°
- b) 70°
- c) 110°

- d) 290°
- 3) A B C is an aright angled triangle at B, A B = 3 cm, B C = 4 cm then $(A C)^2 = \dots \text{ cm}^2$
 - a) 2.5
- b) 16
- c) 5

d) 25

- 4) If L_1 // L_2 and $L_1 \perp L_3$ then
 - a) $L_1 / / L_3$ b) $L_2 \perp L_3$

- d) L₁ intersects L₂

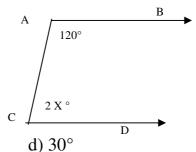
- 5) \overline{AB} \overline{AB}
 - a) ∈
- b) ∉
- c) ⊂

d) ⊄

6) In the opposite figure :

$$\overrightarrow{A} \overrightarrow{B} / / \overrightarrow{C} \overrightarrow{D}$$
 then $x = \dots$

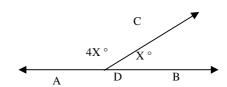
- a) 120°
- b) 100°
- c) 60°



2- Complete:

- a) The angle whose measure is 70° supplementary the angle whose measure is°
- b) If m (\angle A B C) = 120° then m (reflex \angle A B C) =°
- d) If a st. line intersects one of two parallel st. lines then
- e) The sum of measure of the accumulative angles at a point equals°
- f) In the opposite figure:

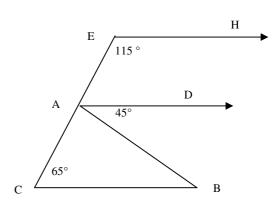
 $D \in A B$ then $X = \dots^{\circ}$



3- a) In the opposite figure:

$$A \in \overline{CE}$$
, $\overline{EH} // \overline{AD}$, $m(\angle E) = 115^{\circ}$,
 $m(\angle BAD) = 45^{\circ}$, $m(\angle C) = 65^{\circ}$

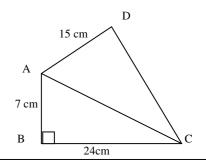
- (i) is $\overrightarrow{E} \overrightarrow{H} / / \overrightarrow{C} \overrightarrow{B}$? Why?
- (ii) Find : $m (\angle CAB)$



b) In the opposite figure:

$$m (\angle B) = 90^{\circ}, m (\angle D) = 90^{\circ}$$

 $AB = 7 \text{ cm}, B C = 24 \text{ cm}, AD = 15 \text{ cm}$
Find $(C D)^2$

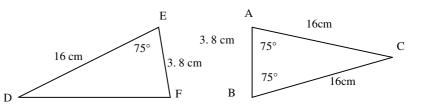


4- a) Using the geometric instruments draw \triangle A B C in which A B = A C = 5 cm and B C = 6 cm draw \overrightarrow{A} D \overrightarrow{D} \overrightarrow{D} To cut B C at D. Find the length of \overrightarrow{A} D and the area of \triangle A B C

b) In the opposite figure :

Prove that : $\Delta A B C = \Delta E F D$

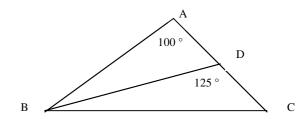
and find : $m (\angle D)$ and DF



5- a) In the opposite figure :

 $m (\angle A) = 100$, \overline{BD} bisects ($\angle CBA$),

m (\angle B D C) = 125° find : m (\angle C)



b) In the opposite figure :

 $\overline{AB} \cap \overline{CD} = \{M\}, AM = BM \text{ and }$

CM = DM

is $\triangle A M C = \triangle B M D ? Why ?$

